

ABSTRACT

A lightweight poured-in-place concrete building component and method of construction in which a plurality of spaced apart structural members with outer regions and a retaining layer system create a segmented form into which a lightweight concrete slurry is poured. The retaining layer system includes a lath which extends across the structural members on at least one outer region of the structural members. The lath is configured to simultaneously support a significant amount of the lightweight concrete slurry within a segmented form and allow a small amount to exude through the lath, thereby reinforcing a concrete component once cured. Alternative embodiments include the introduction of a barrier between a significant portion of a lath and concrete slurry to at least reduce the amount on concrete which exudes through the lath. Other alternative embodiments include the introduction of insulative materials to the concrete slurry to enhance the insulative qualities of a concrete component.